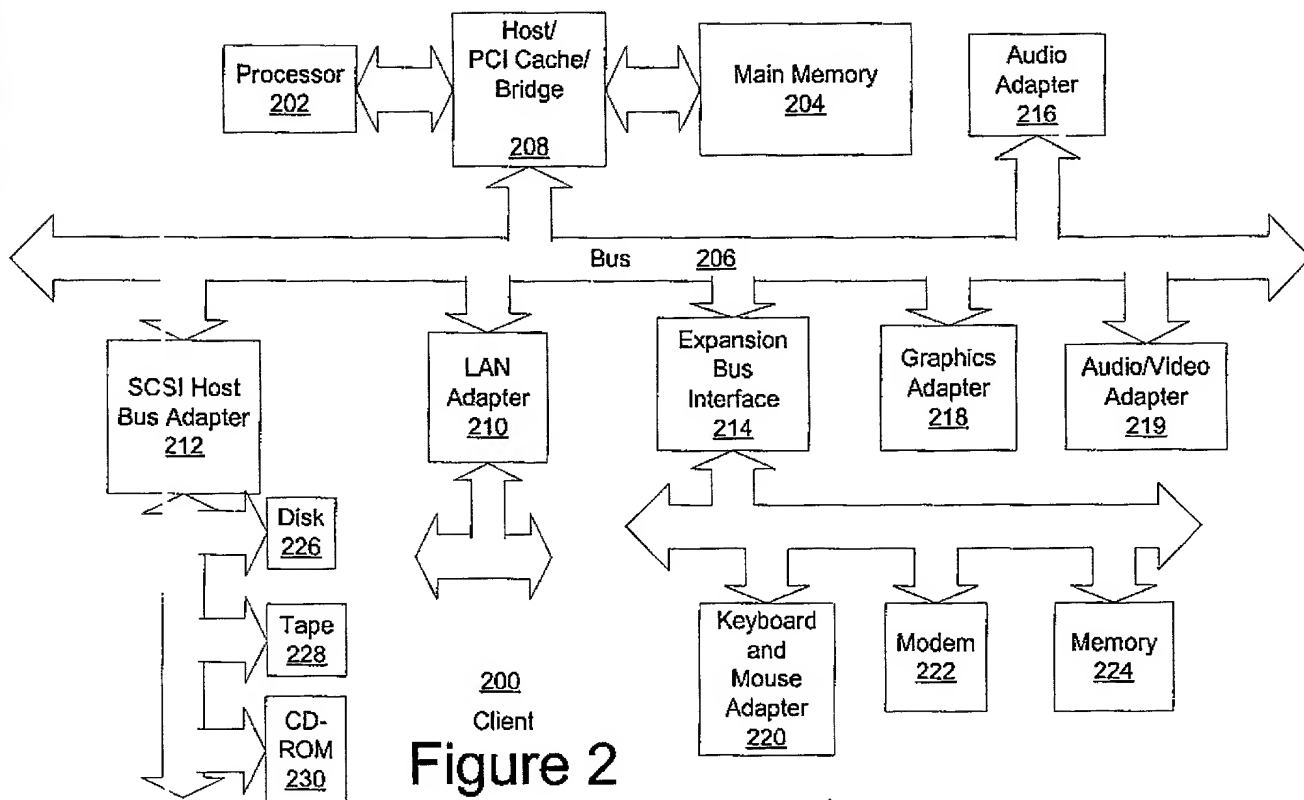
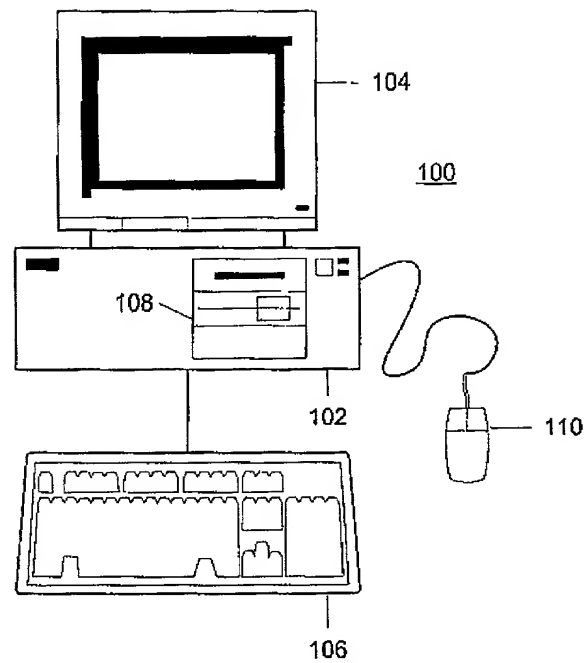


Figure 1

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Illustration of Typical Visio User Interface with Manually-Edited Drawing In Progress

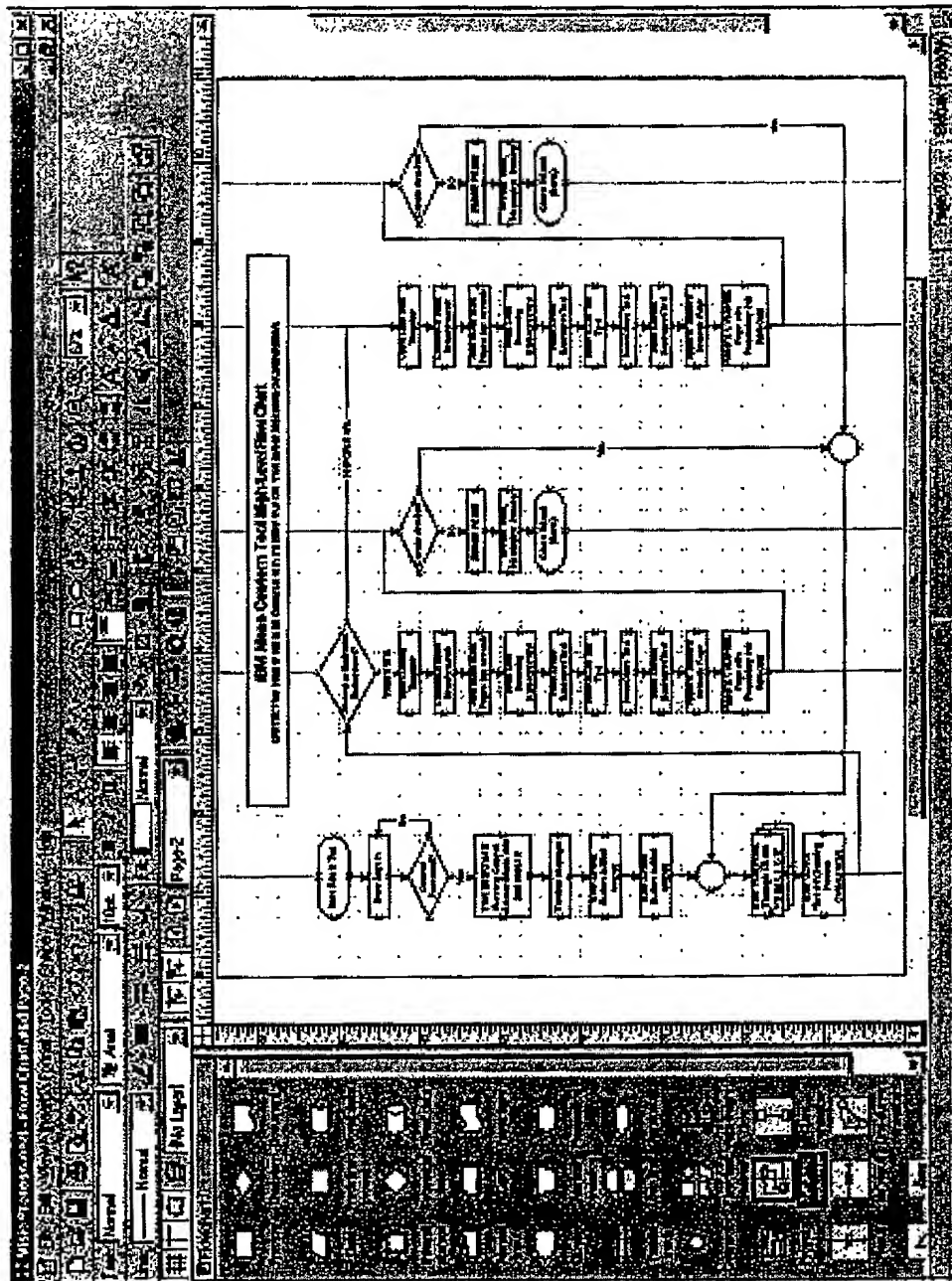


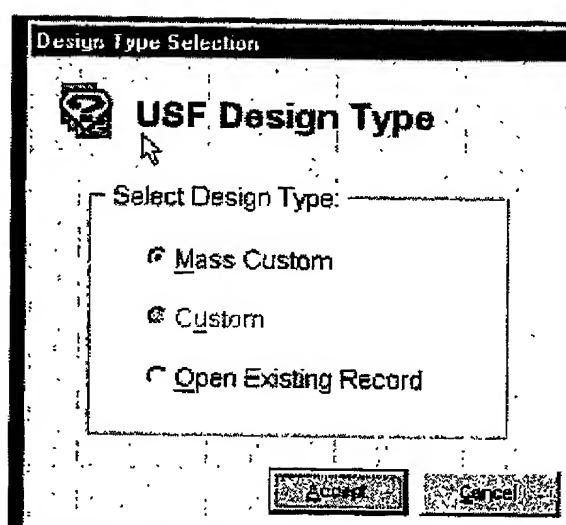
Figure 4
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400

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10004948-120504



500

Figure 5A

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IBM USF Solution Design Tool Version: 0.9

Customer Information

Step 2 of 12

Company Name:

Address 1:

Address 2:

City: State: Zip:

Customer Contact 1: Phone:

Customer Contact 2: Phone:

IBM Customer Representative:

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Figure 5B

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IRM IISF Solution Design Tool Version: 0.9

Geographic Load Balancing

Step 3 of 12

Simulated Web Locations - SLIMONS

☒ One Location (Default)

☐ Multiple Locations

This section is required if the customer wants every region site available, which can only be met by implementing two or more web sites.

Enter the Number of Geographic Locations:

(Default is 2 Locations)

Buttons: About, Help, Performance info, Exit, Previous, Next

504

Figure 5C

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IBM QSF Solution Design Tool Version: 0.9

Firewalls

Step 4 of 12

Select Dedicated or Shared

Web Layer: **SHARED**

Data Layer: **SHARED**

Backend Layer: **SHARED**

Select the Firewall Platform

Web Layer: []

Data Layer: []

Backend Layer: []

Buttons: Add, Help, Cancel, Performance info, OK, Back, Next, Finish

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Figure 5D

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IBM USF Solution Design Tool Version 0.9

Web Servers

Step 6 of 12

Server Platform:

- ☒ P600
- ☐ Netfinity
- ☐ S/390

Server Platform Details

Select Server Model:

Server Qty:

Select Software Required:

- ☐ Netscape Enterprise
- ☐ Lotus Domino Serve
- ☐ Apache (Std.Ed. IBM)
- ☐ Apache (Advanced)

Server Default Description (40 char):

High Availability Disk Arrays for Selected Server:

Array Qty:

About Help Performance Info Exit Payroll Log Quit

510

Figure 5F

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10004943 120501

IBM USF Solution Design Tool Version: 0.9

Application Servers

Step 7 of 12

Server Platform:

- ☒ IBM 6000
- ☐ Netrix
- ☐ Sun

Server Platform Details:

Select Server Model:

Server Qty:

Select Software Required:

- ☐ Standard Ed. of WebSp
- ☐ Advanced Ed. of WebSp
- ☐ to be specified

Select Default Description (40 char):

High Availability Disk Arrays for Selected Server:

Array Qty:

Server Layer:

- ☐ Database Layer
- ☒ Web Layer

☐ Client/Server connection

Buttons: [Back] [Help] [Cancel] [Performance Info] [Exit] [Previous] [Next] [OK]

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Figure 5G

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IBM USF Solution Design Tool Version: 0.9

Database Servers

Step 8 of 12

Server Platform

Server Platform Details

Select Server Model: Server Qty:

Select Software Required:

☐ IBM Universal Data Base

☐ to be specified

Server Default Configuration (50 drive)

High Availability Disk Arrays for Selected Server

Array Qty:

Server Layer

☐ Database Layer

☐ Web Layer

☐ Application Layer

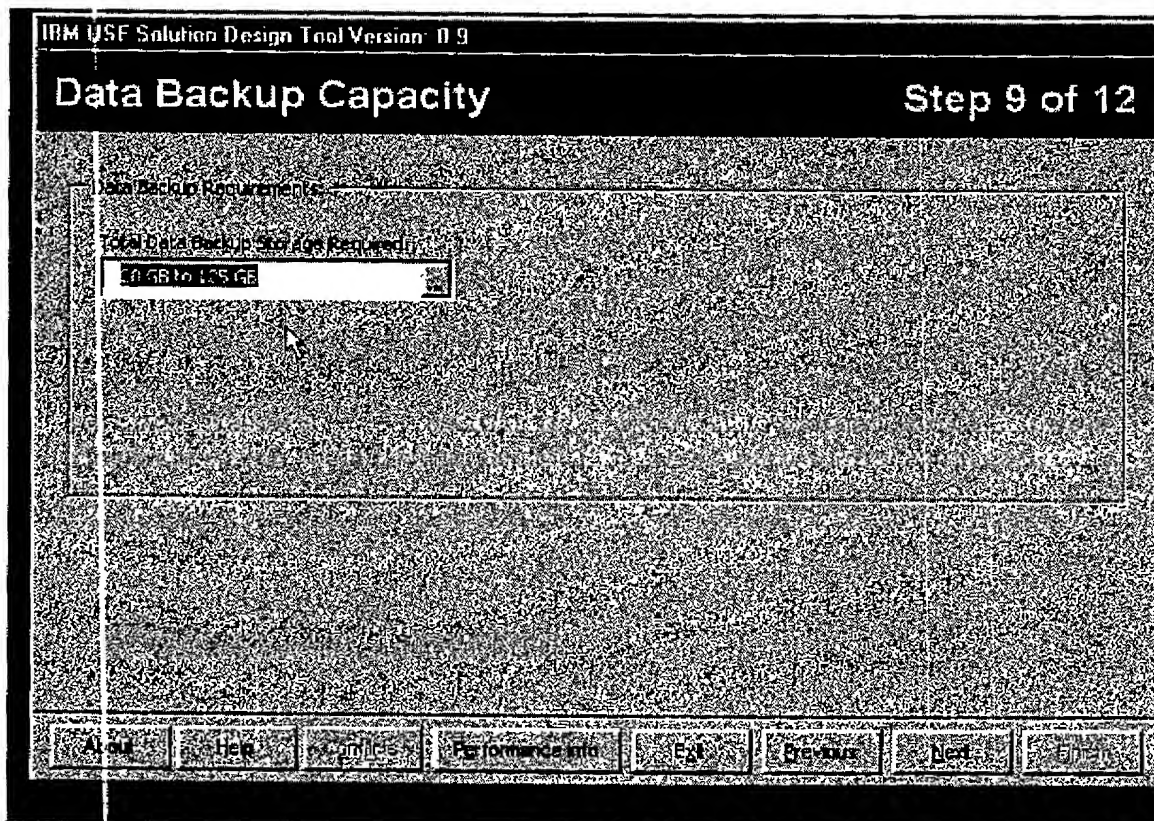
Buttons:

514

Figure 5H

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Figure 51

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IBM USS Solution Design Tool Version: 6.9

Load Balancers

Step 10 of 12

Local Load Balancer:

Select Local Load Balancer Product:

Location of the Selected Load Balancer:

☐ Web Server

☐ Database

Internet, Intranet and Extranet solutions are required
operating the USS level to which the load
balancer will be installed. The default level is the
USS level.

Back Help Cancel Performance Info Exit Previous Next Finish

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Figure 5J

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"0902" 84640001

IRM USF Solution Design Tool Version: 0.9

Environment

Step 11 of 12

Shared Environment

Select the Appropriate Shared Environment Template:

(The number of servers for the service is greater than 10 or the number of I/O needed exceeds 10. Shared Dedicated will be the only option.)

Dedicated Environment

Select the Appropriate Dedicated Environment Template:

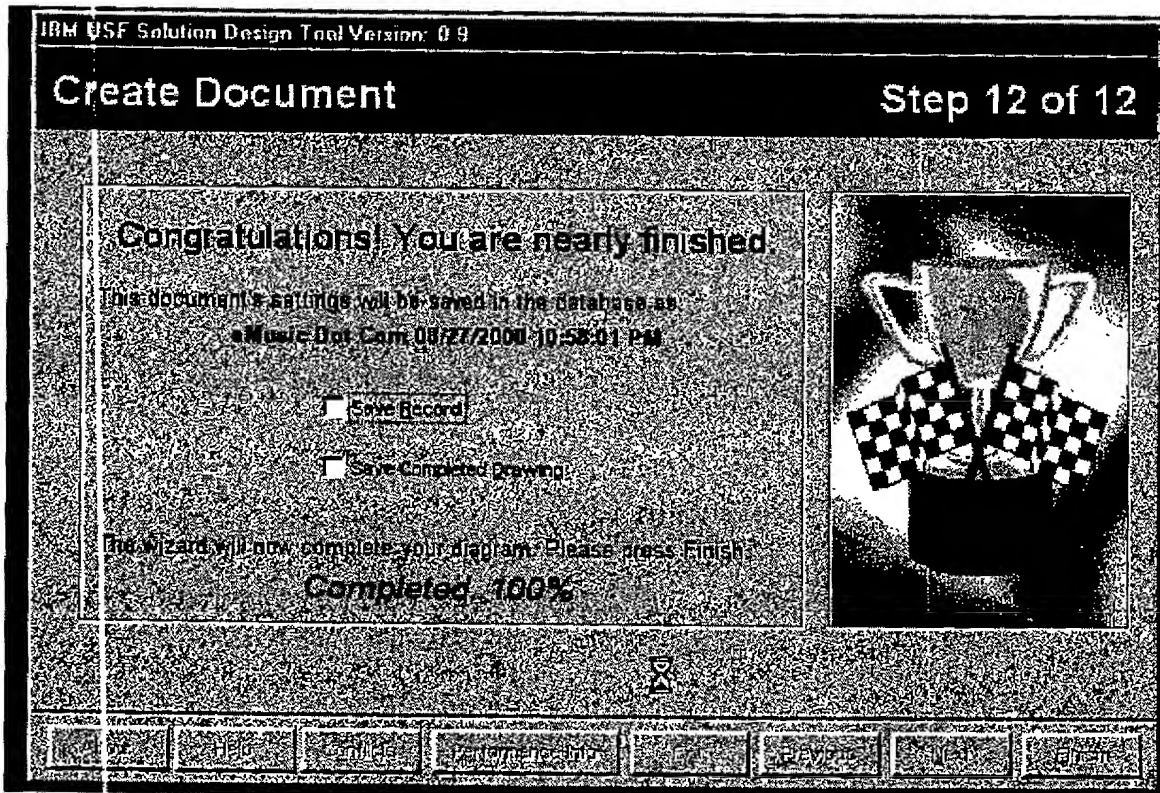
Buttons: [About] [Help] [Tools] [Performance Info] [Exit] [Previous] [Next]

520

Figure 5K

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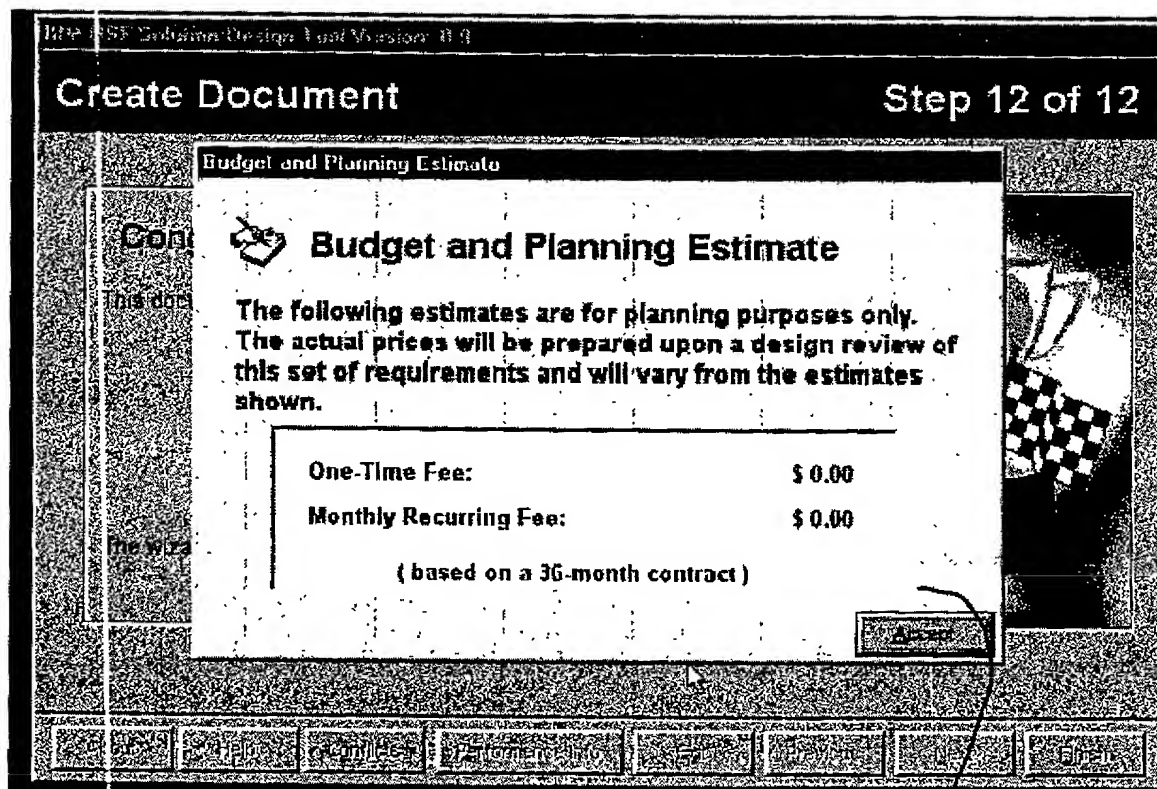


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Figure 5L

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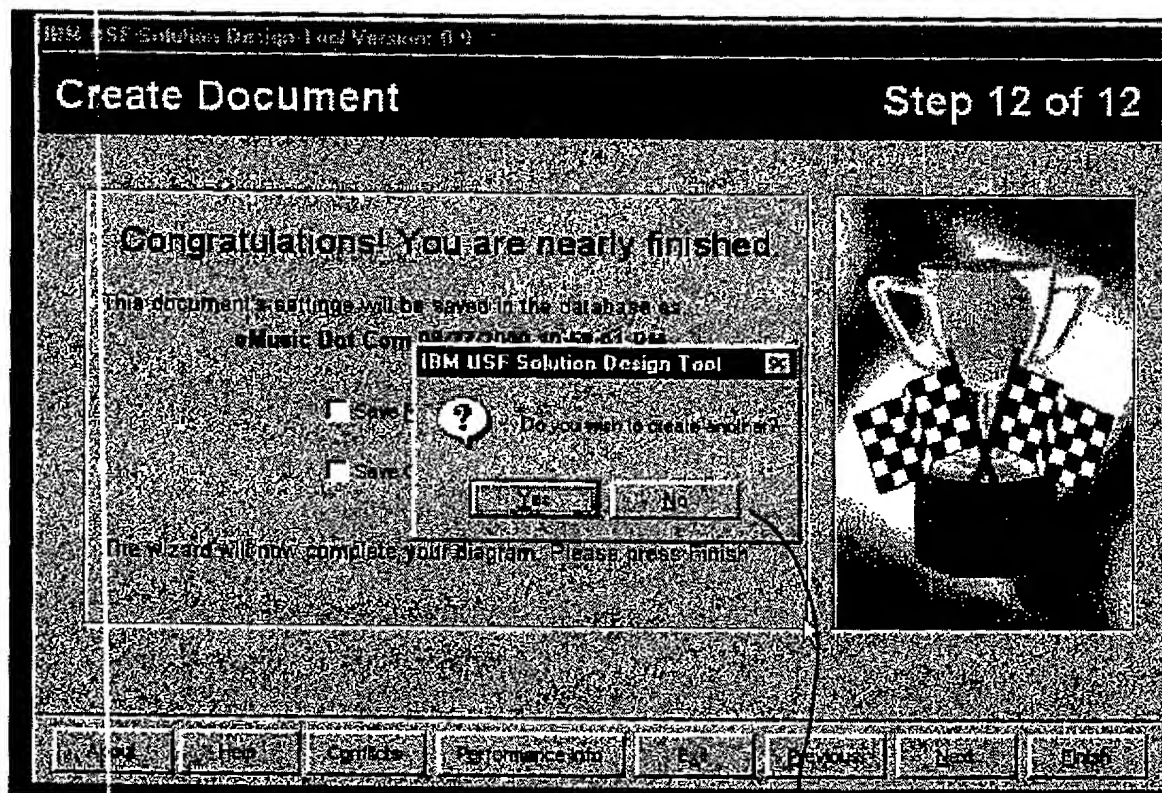
522

524

Figure 5M

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Figure 5N

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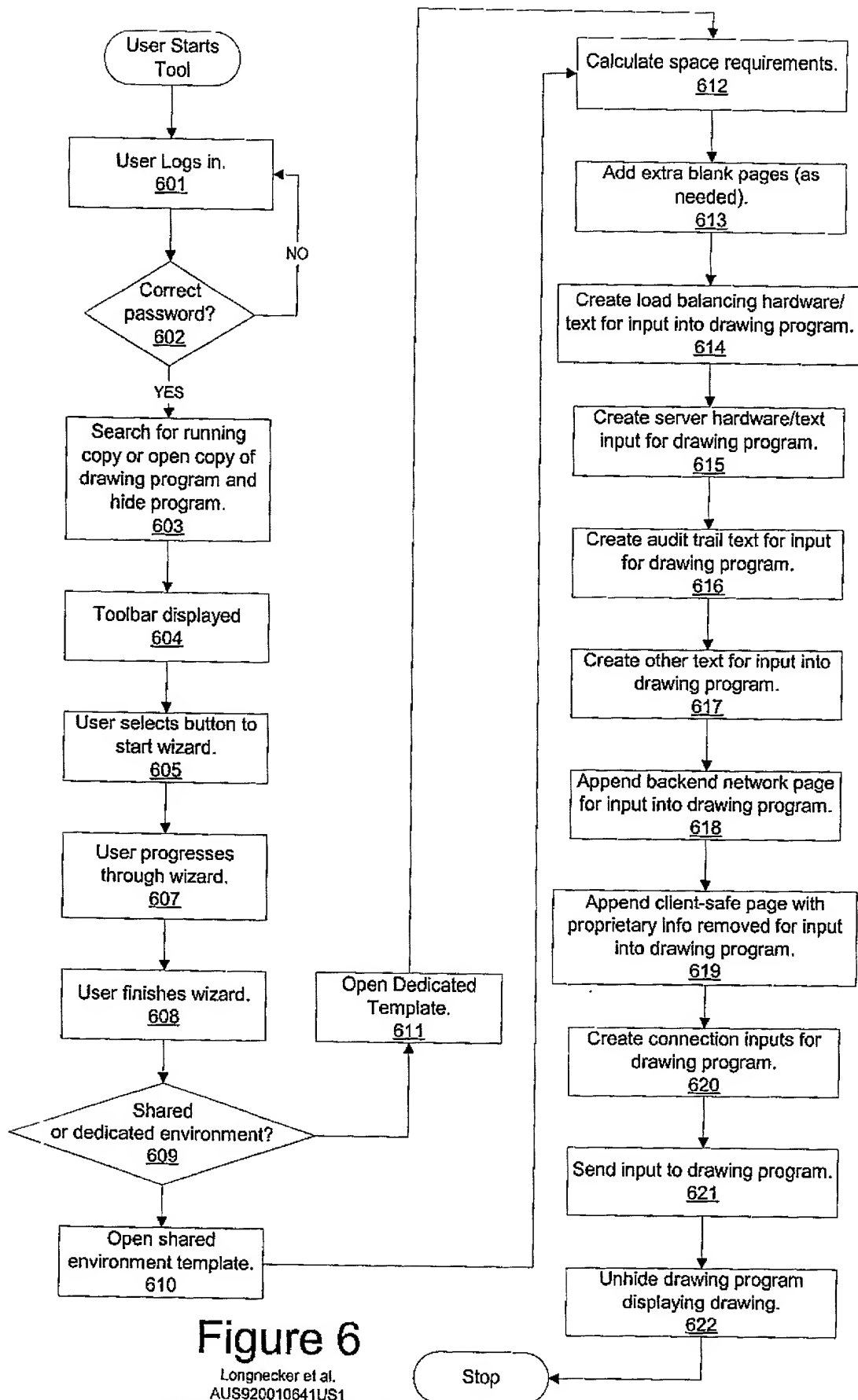


Figure 6

```

WAN Bandwidth      2x512 CIR/71
# Bcast           1
LAN Eth0/eth1      1
# All connections 100BaseT (100 Mbps) except
# for Backend connectivity
Firewall            1
# Layer 1: DEDICATED VRRP
# Layer 2: DEDICATED VRRP
# Layer 3: SHARED
#

```

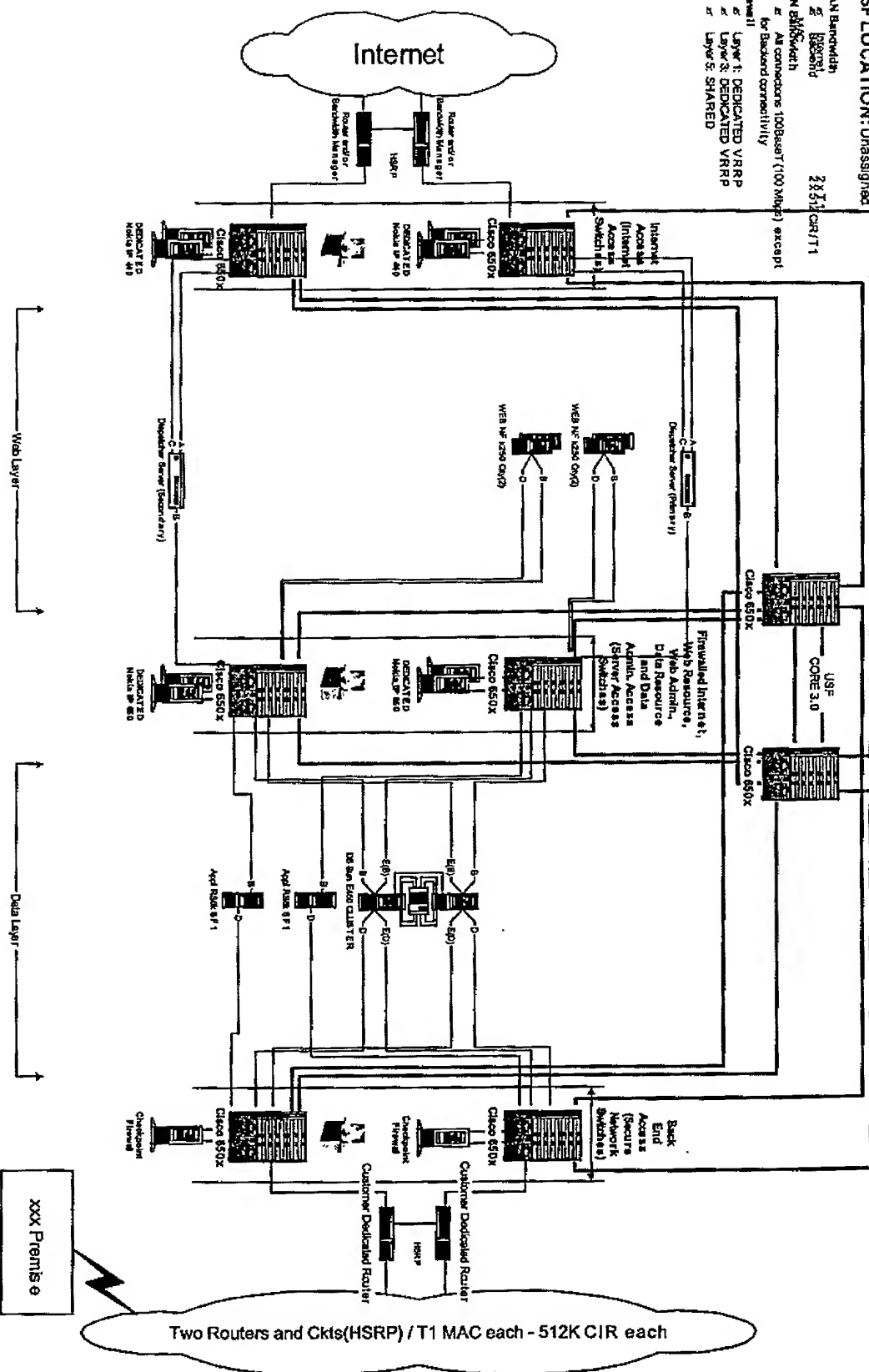


Figure 7
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Dispatcher Server (Qty 2)

Key 28 - METAMOS.003

Handwritten:

- *IBM RS6000 43P Model 150
- *1 x 375MHz to 604e PowerPC Processor
- *512 MB/s main memory (2 x 256 MB DIMM)
- *2 x 9 GByte Hard Disk
- [Base Operating System & BOS Mirror]---
- *1 x Media Bay Disk Drive Mounting Kit
- *3 x 10/100 Mbps Ethernet NIC Adapters
- *1 x Power Supply Connection

Software #

```

"AX Base Operating System (BOS) (current build )
"WinSphere Edge Server Software Package
".....containing SecureWay Network Dispatcher Program

A Adapter : (100baseT) Ethernet INTERNET (100)
B Adapter : (100baseT) WEB to DB Layer - User Admin (300)
C Adapter : (100baseT) Private Internet Access
D Adapter : (100baseT) Private VLAN (200)

```

Web Layer Firewall Server (Qty 2)

keyfile == FWLN4450.001

Hartmann

- 1 x Intel Processor
- 1 x 256 MB/e RAM main memory
- 1 x 20 GB/e CPCI Hard Drive
- 3 x Four Port 10/100 Ethernet CPCI Interface Card
- 1 x Ethernet Cable (for crossover)
- 1 x Power Supply
- 1 x Power Supply Connection

Software:

- * Access Control
- * Authentication
- * Encryption
- * Address Translation
- * Content Security
- * Connection Control
- * Enterprise Management

Network Connections

- External INTERNET (100)
- Firewall to INTERNET Connection (20)
- Firewall Logging (18)
- HeartBeat ()
- Firewall Tool Resource (18)
- Firewall Internal VLAN (200)

Virtual Routing Redundancy Protocol is used for failover.

key file == FWLN6590.001

1000

- *Note: IP650 Base System
- *1 x Intel Processor
- *1 x 256 MB/s RAM main memory
- *1 x 8 GB/s PCI Hard drive
- *2 x Four Port 10/100 Ethernet PCI Interface Card
- *1 x Ethernet Cable (for crossover)
- *2 x Power Supply
- *2 x Power Supply Connection

Refers to:

• Access Control	..
• Authentication	..
• Encryption	..
• Address Translation	..
• Content Security	..
• Connection Control	..
• Enterprise Management	..

Network Connections

- J Adapter: Firewall Logging (19)
- K Adapter: Heartbeat (9)
- L Adapter: Firewall to Web B (300)
- M Adapter: Firewall to Data B (500)
- Q Adapter: Firewall Tool Resource (18)

Virtual Routing Redundancy Protocol is used for failover.

Figure 8A
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Data Base Server MED CLUSTER (Qty 1)
 shown as = 100 BaseT External BackEnd
 key file = ADBSCLMS001

Hardware
 *Sun E450 Server (Qty 2 of these servers)
 *4 x 400 Mhz cpu
 *3072 MByte main memory
 *2 x 18 GByte Hard Disk
 *--(Base Operating System & BOS mirror)
 *--(ADM Backup System & mirror)
 *--(ADM Backup System & mirror)
 *1 x 12/24 GByte 4mm DDS3 Internal Tape Drive
 *4 x 10/100 Mbps Ethernet NICs using 2 Quad Cards
 *2 x Power Supply Connection for E450

Disk Expansion Unit w/RAID (Qty 2 of these units)
 *4 x 18 GByte Hard Disk (per unit)
 *2 x Power Supply Connection for Disk Exp Unit
 *Total Hard Disk Storage for client data = 8 x 18 GB
 *--(4 x 18 GByte available with mirroring)
 *--Administrative Workstations Sun Ultra 5 w/monitor
 *--with Terminal Concentrator Kit for sharing
 *1 x Power Supply Connection

Software
 *Sun Solaris Operating System (SOS) (current build)
 *Sun Cluster Software & Documentation
 *Sun Veritas File System Software
 *Sun Veritas Volume Manager Software
 *to be specified
 *Other software is customer supplied software

Network Connections
 B (100BaseT) WEB to DB Layer + USF Admin (300)
 D (100BaseT) External BACKEND (400)
 E(B) (100BaseT) Followup for Adapter (B) (300)
 E(C) (100BaseT) Followup for Adapter (D) (400)

Application Server (Qty 2)
 shown as = Appl RS0K 6F1
 key file = ADBAMDS001

Hardware
 *RS8000 6F1 MED APP or MED DB
 *2 x 450 Mhz cpu
 *4096 MByte main memory
 *1 x PCI Dual Channel Ultra2 SCSI Adapter
 *2 x 9 GByte Hard Disk
 *--(Base Operating System & BOS mirror)
 *1 x 4-Channel Ultra3 SCSI PCI RAID Adapter
 *8 x 18 GByte Hard Disk (client data)
 *--(3 x 18 GByte available with mirroring)
 *4 x 10/100 Mbps Ethernet NIC's
 *2 x Power Supply Connection

Software
 *AUX Base Operating System (SOS) (current build)
 *Advanced Editor/ WebSphere Appl. Server
 *Other software is customer supplied software

Network Connections
 S (100BaseT) WEB to DB Layer + USF Admin (300)
 D (100BaseT) External BACKEND (400)

Figure 8B
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Administration Workstation
 Hardware
 * Sun Ultra Enterprise Ultra 10 Model 440
 * 1 x 440MHz UltraSPARC-III
 * 256MB DRAM
 * 2 x 9.1GB 7200 RPM Hard Disk (EIDE)
 * 1 x 17in Monitor

Software
 * Solaris 2.6

Network
 * A Adapter (Integrated): USF Admin (Data Admin (500))

Other Hardware
 * 1 x Terminal Concentrator Kit

Fall Over Scheme:
 * Server 1 fail over to server #2

EXP200 Notes:

You may need to include the following parts in your EXP200 configuration:
 * ORK331 IBM Netfinity 4.2M Ultra2 SCSI Cable
 * 37L5857 Netfinity EXP200 Rack-to-Tower Conversion Kit
 * 37L0075 Netfinity EXP200 350W Redundant Power Supply